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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/084,109	10/084,109 02/27/2002		Hiromi Katoh	46547/57,145	6866	
21874	7590	09/21/2005		EXAM	INER .	
EDWARDS & ANGELL, LLP P.O. BOX 55874 BOSTON, MA 02205		L, LLP	RECEIVED OIPE/IAP	AWAD,	AWAD, AMR A	
				ART UNIT	PAPER NUMBER	
				2675		
				DATE MAILED: 09/21/200	DATE MAILED: 09/21/2005	
			SEP 2 7 2005			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 416 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and months) after the mailing date of this notice, the Patent Term Adjustment will be 416 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



### UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

21874

7590

09/21/2005

EDWARDS & ANGELL, LLP P.O. BOX 55874 BOSTON, MA 02205 EXAMINER AWAD, AMR A

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PAPER NUMBER

ART UNIT

DATE MAILED: 09/21/2005

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION N	
•	10/084.109	02/27/2002	Hiromi Katoh	46547/57,145	6866

TITLE OF INVENTION: DISPLAY DEVICE HAVING AN IMAGE SHIFTER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	12/21/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

			or <u>Fax</u>	(571) 273-2885			
INSTRUCTIONS: This for appropriate. All further cor indicated unless corrected by	rm should be used for tran respondence including the below or directed otherwise	smitting the ISSU Patent, advance or in Block 1, by (a	E FEE and PUBLIC ders and notification ) specifying a new of	OATION FEE (if required of maintenance fees workenspondence address	ired). Blocks 1 through 5 s will be mailed to the current ; and/or (b) indicating a sepa	hould be completed where correspondence address as arate "FEE ADDRESS" for	
maintenance fee notification	15.						
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must			
	590 09/21/2005			have its own certificat	e of mailing or transmission.		
EDWARDS & ANGELL, LLP				Ce	rtificate of Mailing or Trans	smission a denosited with the United	
P.O. BOX 55874 BOSTON, MA 02205				I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
						(Depositor's name)	
						(Signature)	
					·	(Date)	
APPLICATION NO.	FILING DATE	1	FIRST NAMED INVE	ITOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/084,109	02/27/2002		Hiromi Katoh		46547/57,145	6866	
TITLE OF INVENTION: D	ISPLAY DEVICE HAVING	AN IMAGE SHII	FTER				
APPLN, TYPE	SMALL ENTITY	ISSUE FI	EE P	UBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1400		\$300	\$1700	12/21/2005	
EXAM	IINER	ART UN	іт с	LASS-SUBCLASS	]		
AWAD,	AMR A	2675		345-690000	•		
1. Change of correspondence	e address or indication of "F	ee Address" (37	2. For printing on	the patent front page, l	ist		
CFR 1.363).			(1) the names of	ne names of up to 3 registered patent attorneys			
Address form PTO/SB/12	lence address (or Change of 22) attached.	Correspondence	or agents OR, alte	single firm (having as a member a 2			
"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer  2 registry			registered attorne	ney or agent) and the names of up to ent attorneys or agents. If no name is 3			
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	THE PATENT (print	or type)			
PLEASE NOTE: Unless recordation as set forth in	an assignee is identified by 37 CFR 3.11. Completion	elow, no assignee of this form is NO	data will appear on Γ a substitute for filin	the patent. If an assignment.	nee is identified below, the o	document has been filed for	
(A) NAME OF ASSIGN	EE	(B	) RESIDENCE: (CIT	Y and STATE OR CO	UNTRY)		
Please check the appropriate	assignee category or catego	ries (will not be pri	inted on the patent):	☐ Individual ☐ C	orporation or other private gr	oup entity Government	
4a. The following fee(s) are	enclosed:	4b	. Payment of Fee(s):		· · · · · · · · · · · · · · · · · · ·	<u></u>	
				mount of the fee(s) is enclosed.			
				lit card. Form PTO-2038 is attached.			
Advance Order - # of Copies Deposit Account Nu				hereby authorized by omber	charge the required fee(s), or (enclose an extra or	credit any overpayment, to copy of this form).	
5. Change in Entity Status	(from status indicated above	:)					
<u> </u>	MALL ENTITY status. See				LL ENTITY status. See 37 C	(0) ( )	
The Director of the USPTO NOTE: The Issue Fee and Printerest as shown by the reco	is requested to apply the Issi ublication Fee (if required) vords of the United States Pate	ue Fee and Publicat will not be accepted ent and Trademark	tion Fee (if any) or to I from anyone other t Office.	re-apply any previous han the applicant; a reg	ly paid issue fee to the applic istered attorney or agent; or t	ation identified above. he assignee or other party in	
Authorized Signature				Date		<u></u>	
Typed or printed name			•				
This collection of information an application. Confidentialists	on is required by 37 CFR 1.3 ity is governed by 35 U.S.C.	11. The informatio	n is required to obtain 1.14. This collection	n or retain a benefit by is estimated to take 12	the public which is to file (an minutes to complete, includi omments on the amount of ti	d by the USPTO to process) ng gathering, preparing, and	
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this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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	Application No.	Applicant(s)			
N-4' E Allamabilitus	10/084,109	KATOH ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Amr Awad	2675			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.					
1. X This communication is responsive to RCE filed on 4/10/2005.					
2. The allowed claim(s) is/are 1,2 and 4-42.					
3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the:	ider 35 U.S.C. § 119(a)-(d) or (f).				
<ol> <li>Certified copies of the priority documents have</li> </ol>	been received.				
2. Certified copies of the priority documents have					
3. Copies of the certified copies of the priority doc	cuments have been received in this	national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.					
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.					
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached					
1)  hereto or 2)  to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).					
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
•					
Attachment(s)		•			
1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal F	Patent Application (PTO-152)			
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary (PTO-413),				
Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	Paper No./Mail Dai 08), 7. ☐ Examiner's Amendr	te ment/Comment			
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance			
of Biological Material	9.				
	o				

Application/Control Number: 10/084,109

Art Unit: 2675

## **DETAILED ACTION**

## Allowable Subject Matter

1. Claims 1 and 3-42 are allowed.

### REASONS FOR ALLAWACE

2. The following is an examiner's statement of reasons for allowance:

With respect to claim 1, none of the prior art either singularly or in combination teach or fairly suggest a display device for dividing each frame into a number of subframes that includes among other features, a correction means corrects a subframe signal, representing the first one of the subframes that make up a current frame, by reference to a subframe signal representing another one of the subframes of the current frame, the another subframe being equivalent to the last subframe of the previous frame, and wherein the correction means corrects a subframe signal, representing a non-first one of the subframes of the current frame, by reference to a subframe signal representing the previous subframes of the current frame that has been displayed just before the non-first subframe.

With respect to claim 2, none of the prior art either singularly or in combination teach or fairly suggest, a display device for dividing each frame into a number of subframes and displaying one of the subframes after another, that includes among other features, a correction means that corrects a subframe signal, representing the first one of the subframes that make up the current frame, by reference to a single intensity level of a subframe signal representing the last one of the subframes that make up the

Application/Control Number: 10/084,109

Art Unit: 2675

previous frame, and wherein the correction means corrects a subframe signal, representing a non-first one of the subframes of the current frame, by reference to a signal intensity level of a subframe signal representing the previous one of the subframes of the current frame that has been displayed just before the non-first subframe.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amr Awad whose telephone number is (571) 272-7764. The examiner can normally be reached on Monday through Fridary from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkwitz can be reached on (571)272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/084,109

Art Unit: 2675

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Amr Awad **Primary Examiner** Art Unit 2675

A. A.

AMR A. AWAD And A hard hum